

VOLVO CAR CORPORATION

EXECUTIVE ORDER A-018-0140 New Passenger Cars, Light-Duty Trucks and Medium-Duty Vehicles

Pursuant to the authority vested in the Air Resources Board by Health and Safety Code (HSC), Div. 26, Part 5, Chap. 2; and pursuant to the authority vested in the undersigned by HSC Sections 39515 & 39516 and Executive Order G-02-003;

IT IS ORDERED AND RESOLVED:

That the following exhaust and evaporative emission control systems produced by the manufacturer are certified as described below. Production vehicles shall be in all material respects the same as those for which certification is granted.

MODEL YEAR	TEST GROUP VEHICLE TYPE		EXHAUST EMISSION STANDARD CATEGORY	(mi	JL LIFE les)	IN- COMP (*≖N/A or A/E=ex	MEDIATE USE LIANCE full in-use; h. / evap. late in-use)	FUEL TYPE	
2006	6VVXV02.5L2T	Passenger Car	"LEV II" Low Emission Vehicle (LEV II LEV)	EXH / ORVR	EVAP	EXH	EVAP	0	
				120K	120K 150K		E	Gasoline	
No.	ECS & SP	ECIAL FEATURES	EVAPORATIVE	FAMILY (FV			DISPLACE	MENT (I)	
1	TWC, HAFS, HO2	S, SFI, TC, CAC, OBD(F)		6VVXR0130EV4					
•		*							
*		•			2.4, 2.5				
				33					

See the Attachment for Vehicle Models, Evaporative Family, Engine Displacement, Emission Control Systems, Phase-In Standards, OBD Compliance, Emission Standards and Certification Levels, and Abbreviations.

BE IT FURTHER RESOLVED:

That the exhaust and the evaporative emission standards and the certification emission levels for the listed vehicles are as listed on the Attachment. Compliance with the 50° Fahrenheit testing requirement may have been met based on the manufacturer's submitted compliance plan in lieu of testing. Any debit in the manufacturer's "NMOG Fleet Average" (PC or LDT) or "Vehicle Equivalent Credit" (MDV) compliance plan shall be equalized as required.

BE IT FURTHER RESOLVED:

That for the listed vehicle models, the manufacturer has attested to compliance with Title 13, California Code of Regulations, (13 CCR) Sections 1965 [emission control labels], 1968.2 [on-board diagnostic, full or partial compliance], 2035 et seq. [emission control warranty], 2235 [fuel tank fill pipes and openings] (gasoline and alcohol fueled vehicles only), and "High-Altitude Requirements" and "Inspection and Maintenance Emission Standards" (California Exhaust Emission Standards and Test Procedures for 2001 and Subsequent Model PC, LDT and MDV).

Vehicles certified under this Executive Order shall conform to all applicable California emission regulations.

The Bureau of Automotive Repair will be notified by copy of this Executive Order.

Executed at El Monte, California on this 26th day of May 2005.

Allen Lygns, Chief

Mobile Source Operations Division

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EXECUTIVE ORDER A-018-0140

New Passenger Cars, Light-Duty Trucks and Medium-Duty Vehicles

ATTACHMENT

EXHAUST AND EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION LEVELS

(For bi-, dual- or flexible-fueled vehicles, the STD and CERT in parentheses are those applicable to testing on gasoline test fuel.) NMOG FLEET AVERAGE [g/ml] NMOG or HCHO=formaldehyde; PM=particulate matter; RAF=reactivity adjustment factor; 2/3 D (n/testl=2/3 day diurnat+

- 1		<u> </u>	CH4 F	?AF = *	NMOC	OH4-HEID	iane; NMOG:	FROM-CH4 or	Conic aces M			3	94001	THE REST THE	ا (. ال
- 1	CERT	STD			NMOG or NMHC STD	HCHO=for	maldehyde; F	M=particula	gailic yas; Ni	MHC=non-Cl	14 hydrocarb	on: CO=carbo	n man and t	NOx=oxides o	
- 1-			NMOG	NMHC	NMHC	not-soak F	<l (g="" mi)="run</td"><td>Ding loss O</td><td>DVD (</td><td>NF=reactivity</td><td>adjustment fa</td><td>ctor: 2/3 D in</td><td>"I Honoxide;</td><td>NOx=oxides c</td><td>of nitrogen:</td></l>	Ding loss O	DVD (NF=reactivity	adjustment fa	ctor: 2/3 D in	"I Honoxide;	NOx=oxides c	of nitrogen:
Ĺ	0.036	0.040	CERT	CERT	STD	mi=mile; K	≃1000 miles:	F=degrace	Lave lavganor	i dispensed):	on-board ref	Heling vacor	riestj=2/3 day	/ diurnal+	-8-11,
- (0.000	0.046	[g/mi]	[g/mi]	[g/mi]	CO	[a/mi]	NO	- Transit S	r r~supple	menial federa	al toot annual	ecovery; g=g	NOx=oxides o / diurnal+ ram; mg≂milli	gram
3	A TO THE PROPERTY.			[B,]	[0,]	CERT			[g/mi]	НСНО	[ma/mi]				- ,
		@ 50K	0.020	*	0.075		STD	CERT	STD	CERT			g/mi]	Hwy NC	x [g/mi]
4		@ UL	0.00=		0.075	0.3	3.4	0.03	0.05		STD	CERT	STD	CERT	
200			0.025	*	0.090	0.4	 		0.05	, • .	15.	*			STD
類	0	50°F & 4K	0.044		 	0.4	4.2	0.04	0.07					0.004	0.07
=			0.0-44		0.150	0.4	3.4	0.00		 	18.	•		0.01	
1		8	Tel file (24.5)	Suinea.				0.02	0.05		30.			0.01	0.09
1	CO [g/	mii 🗿	200		NMHC+NO:	x [q/mi]	CO [g/				55.		-	*	*
- 1	[g,	**************************************	A CONTRACT OF THE STATE OF THE	200			U 19/1	TT121 1	MANUCLAN						

NMHC+NOx [g/mi] CO [g/mi] @ 20°F & 50K CO [g/mi] NMHC+NOx CO [g/mi] [US06] (composite) NMHC+NOx (composite) CO [g/mi] [SC03] [g/mi] [US06] **建** CERT [g/mi] [SC03] CERT STD CERT CERT STD CERT 1.6 SFTP @ 4000 miles STD STD CERT STD STD 10.0 0.04 SFTP @ * miles 0.14 2.7 8.0 0.01 0.20 0.1 2.7

Evaporative Family	(grams/te	al + Hot Soak est) @ UL		nal + Hot Soak est) @ UL	Runnii	ng Loss nile) @ UL	On-Board Ref	ueling Vapor
0.00	CERT	STD	CERT	STD		T	Recovery (gram	s/galion) @ ປ
6VVXR0130EV4	0.44	0.50	0.43	 	CERT	STD	CERT	STD
*	*	*	0.43	0.65	0.01	0.05	0.08	
•	+			<u> </u>	•	*	*	0.20
*				·	*	*		<u> </u>
not applicable; UL=useful life; P V=loaded vehicle weight: ALVM	<u> </u>	*	*	· -	*		<u> </u>	 *

* = not applicable; UL=useful life; PC=passenger car; LDT=light-duty truck; MDV=medium-duty vehicle; ECS= Emission Control System; STD= Standard; CERT= Certification; LVW=loaded vehicle weight; ALVW=adjusted LVW; LEV=low emission vehicle; TLEV=transitional LEV; ULEV=ultra LEV; SULEV=super ULEV; TWC=3-way catalyst; ADSTWC=adsorbing TWC; WU=warm-up catalyst; OC=oxidizing catalyst; OZS=oxygen sensor; HO2S=heated O2S; AFS/HAFS=air- fuel ratio sensor / heated AFS; EGR=exhaust TC/SC= turbo/super charger; CAC=charge air cooler; OBD (F)/(P)=full/partial on-board diagnostic; DOR=direct ozone reducing; prefix 2=parallel; (2) suffix=series; CNG/LNG=compressed/liquefied natural gas; LPG=liquefied petroleum gas; E85="85%" Ethanol Fuel;

2006 MODEL YEAR: VEHICLE MODELS INFORMATION

MAKE	MODEL	EVAPORATIVE FAMILY	ECS NO.	ENGINE SIZE (L)	INTERMEDIATE IN-USE COMPLIANCE (*=N/A or full in-use; A/E=exh. / evap. intermediate in-use)		PHASE-IN STD.	OBD ii
					EXH	EVAP]	
VOLVO	S60 R AWD	6VVXR0130EV4	1	2.5	Α.	E	SFTP	
VOLVO	V70 R AWD	6VVXR0130EV4		 			SFIP	Full
		6V VARU130EV4	1	2.5	Α	E	SFTP	Full
VOLVO	S60 T5	6VVXR0130EV4	1	2.4		E	SFTP	F. Al
VOLVO	V70 T5	6VVXR0130EV4		 -			Jr IP	Full
			1	2.4	A	E	SFTP	Full